



PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application : Qingping Jiang et al.  
Application No. : 09/626,566  
Filed : July 27, 2000  
For : NOVEL CHEMILUMINESCENT SUBSTRATES OF  
HYDROLYTIC ENZYMES AND THEIR USE IN ASSAYS  
Examiner : Unknown  
Attorney's Docket : MOI 17002

Group Art Unit: Unknown

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on 11/8/00.

By: Arthur S. Morgenstern  
Arthur S. Morgenstern  
Registration No. 28,244  
Attorney for Applicants

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

It is desired to cite for the record in this application the enclosed references listed on the attached copy of PTO Form #1449. The paragraph(s) marked below are applicable to this Information Disclosure Statement.

[ ] (1) Pursuant to 37 C.F.R. § 1.97(b)(1) and (2), the attached Information Disclosure Statement is being filed within three months of the filing date of the above identified national application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 of the above identified application. Accordingly, applicant(s) believe that no fee or statement under 37 C.F.R. § 1.97(e) is required.

- ☒ (2) Pursuant to 37 C.F.R. § 1.97(b)(3), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits. Accordingly, applicant(s) believe that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- ☐ (3) Pursuant to 37 C.F.R. § 1.97(c), the attached Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by:
- ☐ a statement under 37 CFR §1.97(e); or
- ☐ the fee set forth in §1.17(p).

PETITION UNDER 37 CFR §1.97(d)

- ☐ (4) Pursuant to 37 CFR §1.97(d), applicant(s) hereby petition the Commissioner to consider the attached Information Disclosure Statement which is being filed on or before payment of the issue fee. This petition is accompanied by a statement under 37 C.F.R. § 1.97(e) and the petition fee set forth in 37 C.F.R. § 1.17(i).

STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

- ☐ (5) The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

STATEMENT UNDER 37 C.F.R. § 1.97(e)(2)

- ☐ (6) The undersigned hereby states that no item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the attached Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

Filed: July 27, 2000

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If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy 37 C.F.R. § 1.98(a)(3) even if in a foreign language because the codes are the same in all languages. However, applicant(s) does not necessarily adopt the position reflected by that report.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 23-0804. Triplicate copies of this letter are enclosed.

Respectfully submitted,

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Enclosure  
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Form PTO-1449 (REV. 8-83)		<b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>		ATTY. DOCKET NO. MOI 17002		APPLICATION NO. 09/626,566	
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 2px solid black; border-radius: 50%; padding: 10px; text-align: center; margin-right: 10px;">             OIPE              NOV 13 2000              PATENT &amp; TRADEMARK OFFICE           </div> <div>             INFORMATION DISCLOSURE CITATION  <i>(Use several sheets if necessary)</i> </div> </div>				APPLICANT Qingping Jiang et al.			
				FILING DATE July 27, 2000		GROUP Unknown	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,745,181	05/17/88	Law et al.	530	387	
		4,927,769	05/22/90	Chang et al.	436	518	
		4,931,223	06/05/90	Bronstein et al.	252	700	
		4,959,182	09/25/90	Schaap	252	700	
		5,004,565	04/02/91	Schaap	252	700	
		5,013,827	05/07/91	Schaap	536	17.3	
		5,112,960	05/12/92	Bronstein et al.	536	18.1	
		5,145,772	09/08/92	Voyta et al.	435	4	

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
		WO 90/07511	07/12/90	PCT	C07F9/09	C07D 277/62	
		WO 94/02486	02/03/94	PCT	C07D498 /10	491/10	
		WO 94/10258	05/11/94	PCT	C09K3/0 0	C12Q1/00	

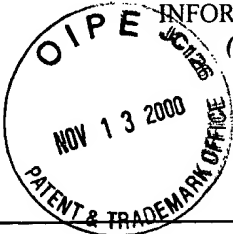
  

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)	
	Kazumi Sasamoto et al., <i>A Chemiluminogenic Substrate for N-Acetyl-β-D-glucosaminidase, o-Aminophthalylhydrazido-N-acetyl-β-D-glucosaminide</i> , Chem. Pharm. Bull. 38(5) 1323-1325 (1990).
	Kazumi Sasamoto et al., <i>A New Chemiluminogenic Substrate for N-Acetyl-β-D-glucosaminidase, 4'-(6'-Diethylaminobenzofuranyl)phthalylhydrazido-N-acetyl-β-D-glucosaminide</i> , Chem. Pharm Bull. 39(2) 411-416 (1991).
	T. Kinkel et al., <i>Synthesis and Properties of New Luminescent Acridinium-9-carboxylic Acid Derivatives and their Application in Luminescence Immunoassays (LIA)</i> , Jour. of Bioluminescence and Chemiluminescence, Vol 4 136-139 (1989)
	Wolf Dieter Engel et al., <i>CEDIA * in vitro diagnostics with a novel homogeneous immunoassay technique</i> , Jour. of Immunological Methods, 150 99-102 (1992)

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form PTO-1449</b> <b>(REV. 8-83)</b> 	<b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>		<b>ATTY. DOCKET NO.</b> MOI 17002	<b>APPLICATION NO.</b> 09/626,566
	<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)			
	<b>APPLICANT</b> Qingping Jiang et al.			
			<b>FILING DATE</b> July 27, 2000	<b>GROUP</b> Unknown

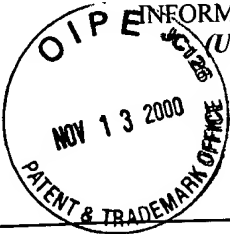
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,306,621	04/26/94	Kricka	435	7.91	
		5,326,882	07/05/94	Bronstein et al	549	16	
		5,393,469	02/28/95	Akhavan-Tafti	252	700	
		5,451,347	09/19/95	Akhavan-Tafti et al.	252	700	
		5,468,646	11/21/95	Mattingly et al.	436	501	
		5,484,556	01/16/96	Akhavan-Tafti et al.	252	700	
		5,589,328	12/31/96	Mahant	435	4	
		5,721,370	02/24/98	Akhavan-Tafti et al.	549	218	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		WO 96/07911	03/14/96	PCT	G01N33/ 535		
		WO 97/26245	07/24/97	PCT	C07D219 /00		
		WO 98/56765	12/17/98	PCT	C07D219 /04	G01N33/533	
		WO 99/09012	02/25/99	PCT	C08D219 /00	G01N33/53	

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	Larry J. Kricka, <i>Ultrasensitive Immunoassay Techniques</i> , Clin. Biochem., Vol 26, 325-331 (1993)
	David Wild et al., <i>Components, Ch. 2 in Wild, The Immonoassay Handbook</i> , (1994), Stockton Press, 4 W. 34 <sup>th</sup> St., NY, NY, 10010, USA
	A. Paul Schaap et al., <i>Chemical and Enzymatic Triggering of 1,2-Dioxetanes.2: Fluoride-Induced Chemiluminescence from Tert-Butyldimethylsilyloxy-Substituted Dioxetanes</i> , (1987), Tetrahedron Letters Vol. 28, No. 11, 1155-1158

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<b>U.S. PATENT DOCUMENTS</b>										
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		5,772,926	06/30/98	Akhavan-Tafti	252	700				
		5,869,699	02/09/99	Bronstein et al.	549	219				
		5,892,064	04/06/99	Schaap et al.	549	510				
		5,936,101	08/10/99	Akhavan-Tafti et al.	549	332				
		5,965,736	10/12/99	Akhavan-Tafti	548	110				
<b>FOREIGN PATENT DOCUMENTS</b>										
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO			
		WO 00/06164	02/10/00	PCT	A61K31/ 425	A6K31/435				
		WO 00/09487	02/24/00	PCT	C07D219 /04	G01N33/58				
		0 401 001 A2	12/05/90	EPO	C07D321 /00	C07F9/12				
		0 516 948 A1	12/09/92	EPO	G01N21/ 76	C12Q1/28				
		EP 0 943 618 A2	03/10/99	EPO	C07D 493/04	A61K 31/335				
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</b>										
Brian R. Clark et al., <i>Chapter 8 Enzyme-Linked Immunosorbent Assay (ELISA): Theoretical and Practical Aspects</i> , 167-247 in Maggio, (1980) CRC Press, Inc., 2000 N.W. 24 <sup>th</sup> St., Boca Raton, FL 33431										
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